



IFC

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:** Thunder Jalili

**Serial No.:** 10/822,568

**Filed:** April 12, 2004

**For:** QUERCETIN SUPPLEMENTATION  
TO PREVENT AND TREAT  
HYPERTENSION

**Confirmation No.:** 2642

**Examiner:** To be assigned

**Group Art Unit:** 1614

**Attorney Docket No.:** 0274-5928.1US

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

August 26, 2004  
Date

Signature

Betty Vowles

Name (Type/Print)

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of U.S. patents are not being submitted pursuant to M.P.E.P. 609 III A(2). Copies of foreign patent documents and non-patent literature are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in

37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US-6,248,375	06-19-2001	Gilles et al.

Other Documents

AVIRAM et al., Pomegranate juice consumption inhibits serum angiotensin converting enzyme activity and reduces systolic blood pressure, *Atherosclerosis*, 2001, pp. 195-98, Vol. 158.

BRODY et al., A randomized controlled trial of high dose ascorbic acid for reduction of blood pressure, cortisol, and subjective responses to psychological stress, *Psychopharmacology*, 2002, pp. 319-24, Vol. 159.

DURANTE et al., Antihypertensive effects of the flavonoid quercetin in spontaneously hypertensive rats, *British Journal of Pharmacology*, 2001, pp. 117-24, Vol. 133.

GALLEY et al., Combination oral antioxidant supplementation reduces blood pressure, *Clinical Science*, 1997, pp. 361-65, Vol. 92.

GRAEFE et al., Pharmacokinetics and Bioavailability of Quercetin Glycosides in Humans, *Herbal Medicine*, 2001, pp. 492-99, Vol. 41.

JALILI et al., PKC translocation without changes in G $\alpha$  and PLC- $\beta$  protein abundance in cardiac hypertrophy and failure, *American Physiological Society*, pp. H2298-H2304.

KOBA et al., Effects of alpha-Tocopherol and Tocotrienols on Blood Pressure and Linoleic Acid Metabolism in the Spontaneously Hypertensive Rat (SHR), *Biosci. Biotech. Biochem.*, 1992, pp. 1420-23, Vol. 56, No. 9.

NAGUIB, A Fluorometric Method for Measurement of Oxygen Radical-Scavenging Activity of Water-Soluble Antioxidants, *Analytical Biochemistry*, 2000, pp. 93-98, Vol. 284.

NEWAZ et al., Effect of gamma-Tocotrienol on Blood Pressure, Lipid Peroxidation and Total Antioxidant Status in Spontaneously Hypertensive Rats (SHR), *Clin. and Exper. Hypertension*, 1999, pp. 1297-1313, Vol. 21, No. 8.

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MELINA et al., Prevalence of Left Ventricular Hypertrophy and Cardiac Arrhythmias in Borderline Hypertension, *American Journal of Hypertension*, 1992, pp. 570-73, Vol. 5.

OKAMOTO et al., Development of a Strain of Spontaneously Hypertensive Rats, March 1963, *Japanese Circulation Journal*, pp. 282-93, Vol. 27.

PEDRO-BOTET et al., Decreased endogenous antioxidant enzymatic status in essential hypertension, *Journal of Human Hypertension*, 2000, pp. 343-45, Vol. 14.

RIZZONI et al., Vascular Structural and Functional Alterations Before and After the Development of Hypertension in SHR, *The American Journal of Hypertension, Ltd.*, 1994, pp. 193-200, Vol. 7.

ROBA, The Use of Spontaneously Hypertensive Rats for the Study of Anti-Hypertensive Agents, *Laboratory Animal Science*, 1976, pp. 305-18, Vol. 26, No. 2.

TAKEISHI et al., Src and Multiple MAP Kinase Activation in Cardiac Hypertrophy and Congestive Heart Failure Under Chronic Pressure-overload: Comparison with Acute Mechanical Stretch, 2001, *J. Mol. Cell Cardiol.*, pp. 1637-48, Vol. 33.

VAZIRI et al., Effect of Antioxidant Therapy on Blood Pressure and NO Synthase Expression in Hypertensive Rats, December 2000, pp. 957-964.

VAZIRI et al., Increased nitric oxide inactivation by reactive oxygen species in lead-induced hypertension, *Kidney International*, 1999, pp. 1492-98, Vol. 56.

VAZIRI et al., Induction of Oxidative Stress by Glutathione Depletion Causes Severe Hypertension in Normal Rats, *Hypertension*, 2000, pp. 142-46, Vol. 36.

**Serial No.: 10/822,568**

This Information Disclosure Statement is believed to be filed before the mailing date of a first Office Action on the merits; therefore, no fee is due.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'G. Scott Dorland', written in a cursive style.

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Date: August 26, 2004  
GSD/bv

Enclosures: Form PTO/SB/08  
Cited Documents

Document in ProLaw

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Substitute for form 1049A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	3
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**Complete if Known**

Application Number	10/822,568
Filing Date	April 12, 2004
First Named Inventor	Thunder Jalili
Group Art Unit	1614
Examiner Name	To be assigned
Attorney Docket Number	0274-5928.1U

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Sheet

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**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		AVIRAM et al., Pomegranate juice consumption inhibits serum angiotensin converting enzyme activity and reduces systolic blood pressure, Atherosclerosis, 2001, pp. 195-98, Vol. 158.	
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